

PURAFIL ENVIRONMENTAL CORROSION REPORT

10-Jun-2010

Company: 111020

Sales Order #: C002697

CCC Panel #: P67991

Date In: 20-May-2010

Date Out: 04-Jun-2010

Days In Service: 15

Room Area ID:

Reference #:

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address 111020	
Room/Area	
Date In 5/20/10	Time In: a.m. 10²⁰ p.m.
Date Out 6/4/10	Time Out: 10⁵ a.m. p.m.
Coupon # 67991	Tracking # C02697
Serial #	

Industrial
 ERM
 Preservation
 CIF

PURAFIL
 First...in clean air

2654 Weaver Way • Doraville, Georgia 30340
 Ph: (770) 662-8545 • (800) 222-6367
 Fx: (770) 263-6922 • www.purafil.com

CCC Panel # P67991

ISA Class G2
 Moderate

Copper Corrosion
 599 Å/30 Days

Silver Corrosion
 241 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67991

The electrolytic reduction analysis on Corrosion Classification Coupon #P67991 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng
 117 Fourth Avenue, Needham MA 02494, USA
 tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922
 Email: purafil@purafil.com / Internet: http://www.purafil.com

Displaying Page 1 [Display Page 2](#)

PURAFIL CCC # P67991 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	232 Å	810 Å	1810 Å	
Unknowns	367 Å	1281 Å	2865 Å	
Totals	599 Å	2091 Å	4675 Å	
Silver Films				
AgCl	46 Å	565 Å	2826 Å	
Ag ₂ S	195 Å	2369 Å	11843 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	241 Å	2934 Å	14669 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

Equipment Reliability Correlation
 (ISA Standard S71.04-1985 for Copper)

